

Mineral Industry Surveys

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LEAD IN MAY 2003

Domestic mine production, based on the net quantity of lead recovered from concentrate, increased by 7% in May compared with production in April. Secondary refinery production increased by about 1% in May and reported consumption remained essentially unchanged compared with the previous month.

According to Platts Metals Week published quotations, the average North American producer price and the average London Metal Exchange cash price (U.S. dollars) increased by 0.18% and 5.98%, respectively, in May.

Demand for lead in North America continued at a steady pace in May showing little sign of an immediate increase. Some producers were optimistic, however, that a noticeable increase in demand could occur by late summer. In the short term, North American producers, reportedly, were likely to view the European lead market as a more favorable outlet for their product. The overall European supply-demand picture for the coming months remained unclear, given the factors of increased lead imports, the recent closure of two large smelter-refineries, and some increasing evidence of declining demand for lead (Ryan's Notes, 2003).

The Battery Council International Conference, held in May, provided an informative outlook for the lead-acid battery industry worldwide. Demand for replacement automotive-type batteries was expected to decrease in the North American market through 2007, mainly as a result of improvements that are extending the life of batteries. In the original equipment market, consolidation among motor vehicle producers and retailers and a trend toward globalization will require that battery manufacturers also consolidate and become more globally oriented. Vehicle production outside of North America is expected to increase significantly through 2007, specifically in Asia and South America. In the Western European market, declining vehicle production during 2003 has placed the demand for original equipment batteries in a slow-growth mode. However, rising vehicle production in Eastern Europe will likely offset some of this decline, resulting in more demand stability in the overall European market. Demand for industrial batteries will continue to be down in both the North American and European markets, mainly as a result of slow growth in the telecommunications sector and delayed investment in third-

generation mobile phone infrastructures (CRU International Ltd., 2003).

The National Defense Stockpile aggregated cash disposal (sale) of lead in May under the monthly Basic Ordering Agreement, DLA-Lead-005, was 3,850 metric tons (t) (4,244 short tons). In addition, 8,800 t (9,700 short tons) were sold under a Long-Term Solicitation of Offers, DLA-Lead-004 (U.S. Defense National Stockpile Center, 2003). Sales in the first 8 months of fiscal year 2003 (October 2002 through May 2003) totaled 46,563 t (51,327 short tons).

The U.S. paint industry and most of the nation's State Attorneys General announced an agreement in May to reduce the hazard from lead-containing paint. The agreement will require uniform stickers or labels on new paint cans warning consumers of the dangers associated with dust from old paint that may be disturbed during home renovations. The agreement also will fund a national training program to instruct individuals on safe methods for eliminating lead paint in old homes and to provide discounts on the cost of certain equipment used in the removal of old paint (Washington Post, 2003).

Canada's Vancouver-based Western Silver Corp. has reported a new higher-grade zone of mineralization from a continued drilling program at its Penasquito polymetallic property in Zacatecas State, Mexico. Lead concentrations ranging from 1.16% to 9.11% were intersected at this new zone, named La Palma. Drilling is continuing at areas of known mineralization as well as new areas that might extend the mineralization at Penasquito (Mining Journal, 2003).

References Cited

- CRU International Ltd., 2003, Consumption Trends: CRU Monitor—Lead, June, p. 10.
- Kaufman, Marc, 2003, States, paint industry agree on lead warnings: Washington Post, May 13, p. A5.
- Mining Journal, 2003, New Penasquito zone: Mining Journal, v. 340, no. 8737, May 23, p. 353.
- Ryan's Notes, 2003, Pb imports not popular with EC producers: Ryan's Notes, v. 10, no. 19, May 12, p. 4.
- U.S. Defense National Stockpile Center, 2003, Stockpile accepts lead offers: Fort Belvoir, VA, U.S. Defense National Stockpile Center news release, May 7, 1 p.

TABLE 1
SALIENT LEAD STATISTICS IN THE UNITED STATES¹

(Metric tons, lead content, unless otherwise specified)

	2002		2003		
	Year ^p	January - May	April	May	January - May
Production:					
Mine (recoverable)	440,000	189,000	36,200	38,800	188,000
Primary refinery	262,000	NA	NA	NA	NA
Secondary refinery:					
Reported by smelters/refineries	1,100,000	443,000	83,000 ^r	84,200	426,000
Estimated	--	4,470	838 ^r	850	4,300
Recovered from copper-base scrap ^c	13,500	6,250	1,250	1,250	6,250
Total secondary	1,120,000	454,000	85,100 ^r	86,300	437,000
Stocks, end of period:					
Primary refineries	NA	NA	NA	NA	NA
Secondary smelters and consumers	105,000	80,700	81,600	84,300	84,300
Imports for consumption:					
Ore and concentrates	6	--	--	NA	-- ²
Refined metal	210,000	97,500	14,900	NA	61,900 ²
Consumption:					
Reported	1,440,000	617,000	109,000 ^r	109,000	571,000
Undistributed ^c	--	61,100	10,800 ^r	10,700	56,500
Total	1,440,000	679,000	120,000 ^r	119,000	628,000
Exports:					
Ore and concentrates	241,000	37,200	21,200	NA	51,900 ²
Bullion	256	95	12	NA	343 ²
Wrought and unwrought lead	43,200	12,000	7,970	NA	25,200 ²
TEL/TML preparations, based on lead compounds	516	215	60	NA	187 ²
Exports (gross weight): Scrap	106,000	46,000	9,750	NA	33,100 ²
Platts Metals Week North American producer price (cents per pound)	43.56	43.64	43.52	43.60	43.57

^cEstimated. ^rRevised. ^pPreliminary NA Not available. -- Zero.

¹Data are rounded to no more than three significant digits, except prices; may not add to totals shown.

²Includes data for January - April only; May data were not available at time of publication.

TABLE 2
MONTHLY AVERAGE LEAD PRICES

	North American producer price cents/lb	LME		Sterling exchange rate dollars/£
		\$/metric ton	£/metric ton	
2002:				
May	43.56	451.52	309.30	1.459814
December	43.54	443.22	279.41	1.586295
Year	43.56	452.29	301.96	1.503145
2003:				
March	43.58	456.36	288.38	1.582471
April	43.52	436.98	277.65	1.573873
May	43.60	463.10	285.45	1.622352

Source: Platts Metals Week.

TABLE 3
CONSUMPTION OF PURCHASED LEAD-BASE SCRAP¹

(Metric tons, gross weight)

Item	Stocks April 30, 2003	Net receipts	Consumption	Stocks May 31, 2003
Battery-lead	16,600	83,700	83,600	16,700
Soft lead	W	W	W	W
Drosses and residues	1,530	3,820	3,910	1,440
Other ²	1,620	2,570	2,060	2,130
Total	19,700	90,100	89,600	20,300
Percent change from preceding month	XX	-0.8	-2.3	+2.8

W Withheld to avoid disclosing company proprietary data; included with "Other." XX Not applicable.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes solder, common babbitt, antimonial lead, cable covering, type metals, and other lead-base scrap not elsewhere classified.

TABLE 4
LEAD, TIN, AND ANTIMONY RECOVERED FROM LEAD-BASE SCRAP
IN MAY 2003¹

(Metric tons)

Product recovered	Secondary metal content		
	Lead	Tin	Antimony
Soft and calcium lead	60,300	--	--
Remelt lead	W	W	W
Antimonial lead	23,200	W	W
Other ²	W	W	--
Total lead-base	84,200	45	383

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

¹Data are rounded to no more than three significant digits.

²Includes cable lead, lead-base babbitt, solder, type metals, and other products.

TABLE 5
CONSUMPTION OF LEAD IN THE UNITED STATES¹

(Metric tons, lead content)

Uses	2002		2003		
	Year ^p	January - May	April	May	January - May
Metal products:					
Ammunition, shot and bullets	57,600	18,800	3,170	3,110	14,600
Brass and bronze, billet and ingots	2,730	889	238	348	1,250
Cable covering, power and communication and calking lead, building construction	3,550	1,560	499 ^r	461	2,080
Casting metals	34,800	3,260	448 ^r	447	2,460
Sheet lead, pipes, traps and other extruded products	27,900	7,630	1,260 ^r	1,400	7,670
Solder	6,450	726	178	169	889
Storage batteries, including oxides	1,190,000	548,000	97,700 ^r	97,100	511,000
Terne metal, type metal, and other metal products ²	24,600	821	9	5	30
Total metal products	1,350,000	582,000	104,000 ^r	103,000	540,000
Other oxides and miscellaneous uses	86,200	35,400	5,580 ^r	5,610	31,100
Total reported	1,440,000	617,000	109,000 ^r	109,000	571,000
Undistributed consumption ^c	--	61,100	10,800 ^r	10,700	56,500
Grand total	1,440,000	679,000	120,000 ^r	119,000	628,000

^cEstimated. ^pPreliminary. ^rRevised. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes lead consumed in foil, collapsible tubes, annealing, plating, galvanizing, and fishing weights.

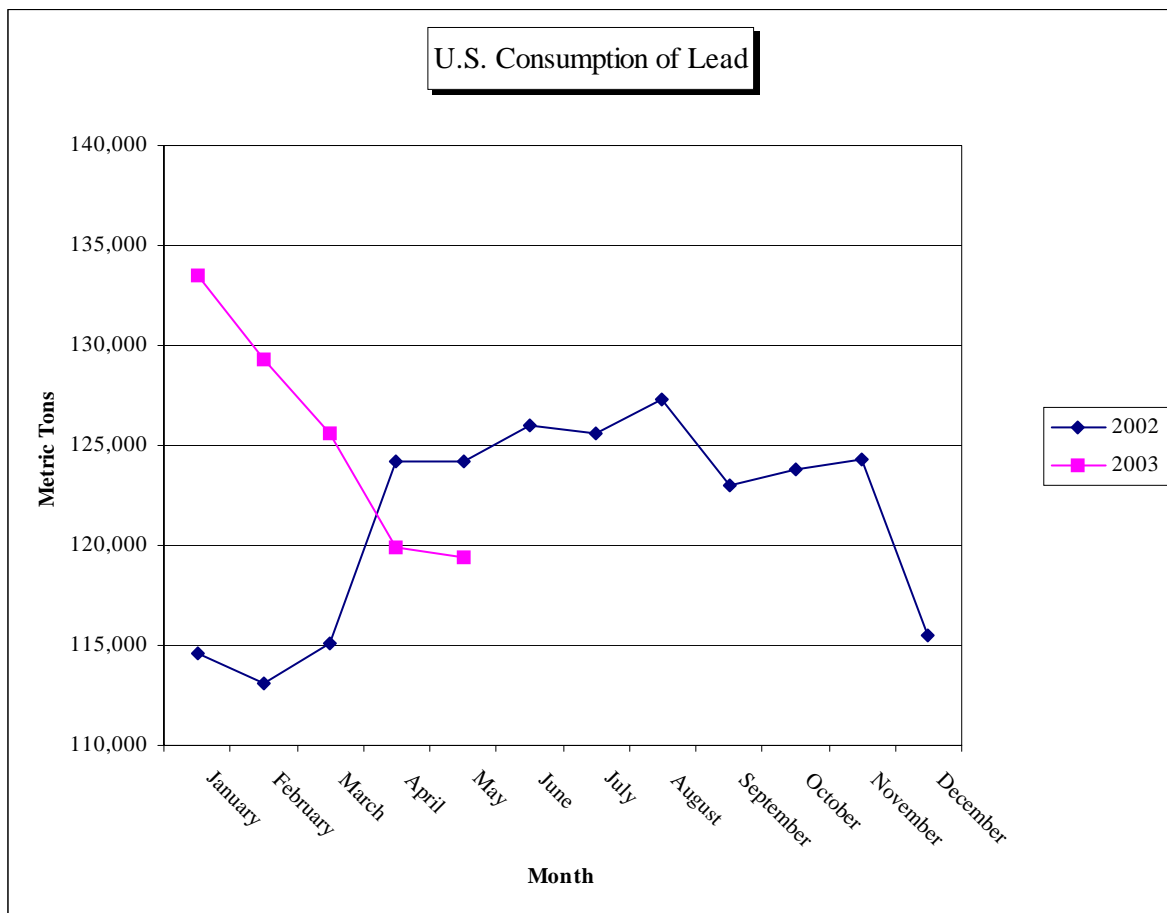


TABLE 6
CONSUMER AND SECONDARY SMELTER STOCKS, RECEIPTS, AND CONSUMPTION OF LEAD¹

(Metric tons, lead content)

Type of material	Stocks April 30, 2003	Net receipts	Consumption	Stocks May 31, 2003
Soft lead	39,300 ^r	62,900	61,400	40,800
Antimonial lead	27,900 ^r	27,000	25,400	29,600
Lead alloys	W	21,700	21,700	W
Copper-base scrap	W	63	64	W
Total	81,100 ^r	112,000	109,000	84,300

^rRevised.

W Withheld to avoid disclosing company proprietary data; included in "Total."

¹Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 7
U.S. EXPORTS OF LEAD, BY CLASS¹

(Metric tons)

	2002		2003		
	Year	April	March	April	January - April
Lead content:					
Ore and concentrates	241,000	29,000	2,190	21,200	51,900
Bullion	256	95	208	12	343
Materials excluding scrap	43,200	9,020	4,020	7,970	25,200
TEL/TML preparations, based on lead compounds	516	108	66	60	187
Total	285,000	38,200	6,480	29,200	77,600
Gross weight: Scrap	106,000	34,500	9,500	9,750	33,100

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 8
U.S. IMPORTS OF LEAD BY TYPE OF MATERIALS AND BY COUNTRY OF ORIGIN¹

(Metric tons, lead content)

Country of origin	General imports					Imports for consumption				
	2002		2003			2002		2003		
	Year	January -	March	April	January -	Year	January -	March	April	January -
		April			April		April			April
Ore, matte, etc.:										
Other	6	--	--	--	--	6	--	--	--	--
Total	6	--	--	--	--	6	--	--	--	--
Pigs and bars:										
Australia	43,700	13,800	--	--	10,100	2,630	2,630	--	--	--
Canada	172,000	53,900	16,200	14,200	56,700	172,000	53,900	16,200	14,200	56,700
China	28,200	19,400	--	--	--	28,200	19,400	--	--	--
Germany	185	73	--	--	--	185	73	--	--	--
Mexico	7,460	2,480	1,550	630	5,060	7,460	2,480	1,550	630	5,060
Other	246	155	13	24	41	94	3	13	24	41
Total	251,000	89,800	17,800	14,900	72,000	210,000	78,500	17,800	14,900	61,900
Reclaimed scrap, including ash and residues	--	--	--	--	--	--	--	--	--	--
Grand total	251,000	89,800	17,800	14,900	72,000	210,000	78,500	17,800	14,900	61,900

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.